

Reactions of O,O-dialkyldithiophosphoric acids with non-activated α -olefins

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Abstract

Electrophilic addition reactions of O,O-dialkyldithiophosphoric acids to non-activated α -olefins proceeding in accordance with the Markovnikov's rule were studied. In the absence of a catalyst these reactions occur very slowly to give the products in low yields, while Lewis acid as a catalyst can greatly accelerate the reaction and increase the conversion in the Ad E-processes. A similar acceleration of the addition processes and an increase in the reaction product yield occur at the action of ultrasound on the reaction medium. © 2012 Pleiades Publishing, Ltd..

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